

Figure 1

Figure 2

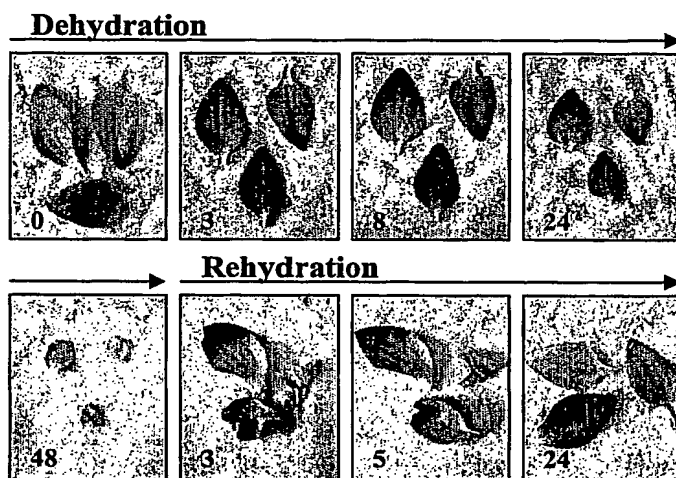
**b**

Figure 3

	Signal Peptide	"Insertion"
Cp1Exp1	MAFLGRIRIIIFATFFAALTSSSHFARYYGGD-----	GAHATFYGGSDASGTMGACGYNLYSQGYGNTNTAALSTALFNNGLSCGSCFELKSCASSISGGGKICVH
AAG60095	MLVTFLPRTGLGATSHVNGYAG-----	GAHATFYGGSDASGTMGACGYNLYSQGYGNTNTAALSTALFNNGLSCGACFELKQ-----NDGKICLP
AAB97125	MAIKLAIPTTFTVIFSLADARIFGIYS-----	GAHATFYGGSDASGTMGACGYNLYSQGYGNTNTAALSTALFNNGLSCGACFELKCA-----NDPQWCHS
BAB111259	MEFFGKMIISLSIMIMMKSVDTGYSSG-----	GAHATFYGGSDASGTMGACGYNLYSQGYGNTNTAALSTALFNNGLSCGACFELKCV-----DDPQWCTG
ZmaExp2	MAPROAMLAVVVFALLPFALSRLGLGHHRHQPHRPHGHAPLGGAWSS-----	GAHATFYGGSDASGTMGACGYNLYSQGYGNTNTAALSTALFNNGLSCGACFELKCDAA-GGGGKSCFP
Cp1Exp1	GG-SITVVTATNFCPPNMLPENNAGGHCNPPLQHFDLSQPVFQHLAQYRAGIVPVSYRRVPCRRRRGGIRFTTINGHSYFNVLVLITNVCGAGDMVFAVSHKGNAT-DQPPSRNNGQNWQSNAN	GG-SITVVTATNFCPPNMLPENNAGGHCNPPLQHFDLSQPVFQHLAQYRAGIVPVSYRRVPCRRRRGGIRFTTINGHSYFNVLVLITNVCGAGDMVFAVSHKGNAT-DQPPSRNNGQNWQSNAN
AAG60095	GG--SITVVTATNFCPPNMLPENNAGGHCNPPLQHFDLSQPVFQHLAQYRAGIVPVSYRRVPCRRRRGGIRFTTINGHSYFNVLVLITNVCGAGDMVFAVSHKGNAT-DQPPSRNNGQNWQSNAN	GG--SITVVTATNFCPPNMLPENNAGGHCNPPLQHFDLSQPVFQHLAQYRAGIVPVSYRRVPCRRRRGGIRFTTINGHSYFNVLVLITNVCGAGDMVFAVSHKGNAT-DQPPSRNNGQNWQSNAN
AAB97125	GSPSITLITATNFCPPNMLPENNAGGHCNPPLQHFDLSQPVFQHLAQYRAGIVPVSYRRVPCRRRRGGIRFTTINGHSYFNVLVLITNVCGAGDMVFAVSHKGNAT-DQPPSRNNGQNWQSNAN	GSPSITLITATNFCPPNMLPENNAGGHCNPPLQHFDLSQPVFQHLAQYRAGIVPVSYRRVPCRRRRGGIRFTTINGHSYFNVLVLITNVCGAGDMVFAVSHKGNAT-DQPPSRNNGQNWQSNAN
BAB111259	GG--SITVVTATNFCPPNMLPENNAGGHCNPPLQHFDLSQPVFQHLAQYRAGIVPVSYRRVPCRRRRGGIRFTTINGHSYFNVLVLITNVCGAGDMVFAVSHKGNAT-DQPPSRNNGQNWQSNAN	GG--SITVVTATNFCPPNMLPENNAGGHCNPPLQHFDLSQPVFQHLAQYRAGIVPVSYRRVPCRRRRGGIRFTTINGHSYFNVLVLITNVCGAGDMVFAVSHKGNAT-DQPPSRNNGQNWQSNAN
ZmaExp2	GG--SITVVTATNFCPPNMLPENNAGGHCNPPLQHFDLSQPVFQHLAQYRAGIVPVSYRRVPCRRRRGGIRFTTINGHSYFNVLVLITNVCGAGDMVFAVSHKGNAT-DQPPSRNNGQNWQSNAN	GG--SITVVTATNFCPPNMLPENNAGGHCNPPLQHFDLSQPVFQHLAQYRAGIVPVSYRRVPCRRRRGGIRFTTINGHSYFNVLVLITNVCGAGDMVFAVSHKGNAT-DQPPSRNNGQNWQSNAN
Cp1Exp1	PNGQLSEKVTISDGRITLYSNNVAPPNPFSGQTISCAQFN	PNGQLSEKVTISDGRITLYSNNVAPPNPFSGQTISCAQFN
AAG60095	LDGQSLSKVTISDGRITLYSNNVAPPNPFSGQTISCAQFN	LDGQSLSKVTISDGRITLYSNNVAPPNPFSGQTISCAQFN
AAB97125	LVEGALSFRVTISDGRITLYSNNVAPPNPFSGQTISCAQFN	LVEGALSFRVTISDGRITLYSNNVAPPNPFSGQTISCAQFN
BAB111259	LDGQALSFRVTISDGRITLYSNNVAPPNPFSGQTISCAQFN	LDGQALSFRVTISDGRITLYSNNVAPPNPFSGQTISCAQFN
ZmaExp2	LDGQALSFRVTISDGRITLYSNNVAPPNPFSGQTISCAQFN	LDGQALSFRVTISDGRITLYSNNVAPPNPFSGQTISCAQFN

Figure 4

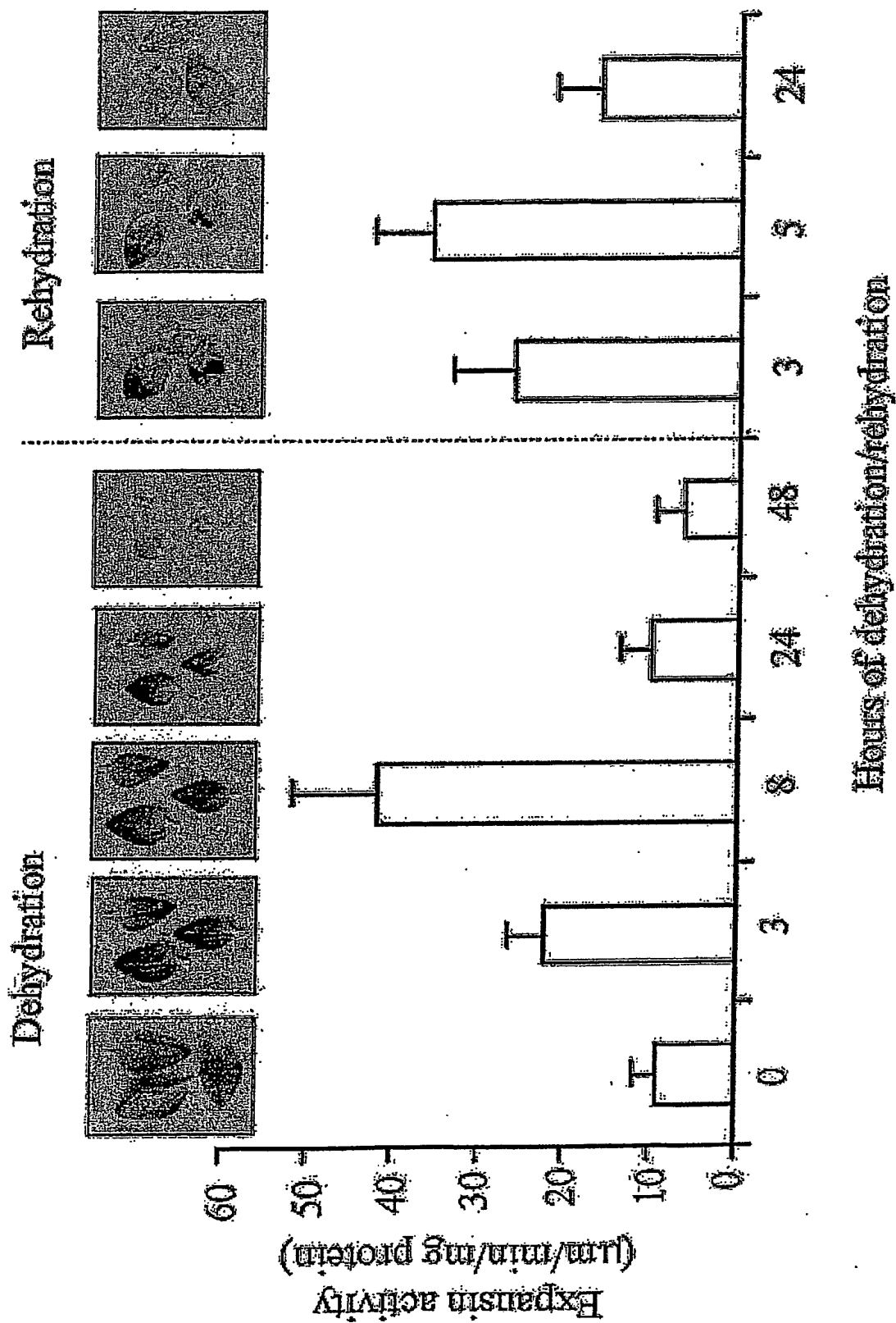


Figure 5

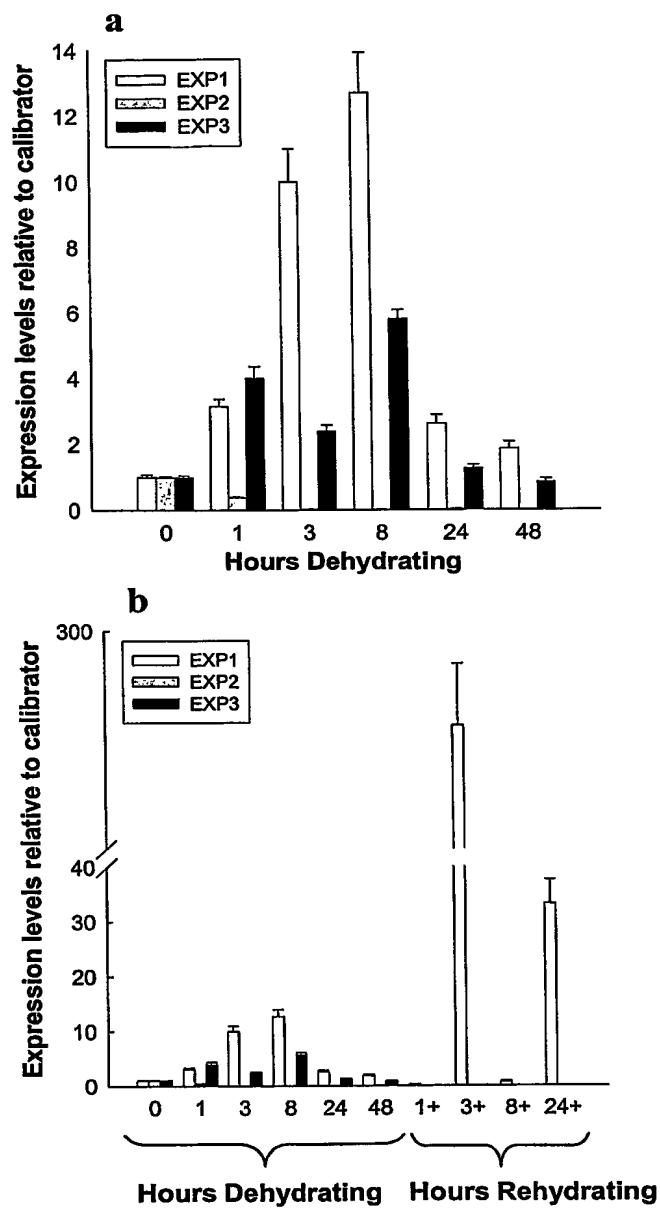


Figure 6a

```
1   atggcgtttc tgggcccgc at tattatTTTT ggcaccttc tggcgattac cagcagcagc
61  catTTTTgcgc gcgcgtatta tggcggcgat ggcggctgga ccgatgcgca tgcgaccttt
121 tatggcggca gcgatgcgag cggcaccatg ggcggcgcg tgcggctatgg caacctgtat
181 agccagggct atggcaccaa caccgcggcg ctgagcaccg cgctgtttaa caacggcctg
241 agctgcggca gctgctttga aattaaatgc gcgagcagca ttagcggcgg cggcaaatgg
301 tgcctgccgg gcggcagcat taccgtgacc gcgaccaact tttgcccgcc gaacaacgcg
361 ctgccgaaca acgcggggcg ctggtgcaac ccgccgctgc agcattttga tctgagccag
421 ccggtgtttc agcatattgc gcagtatcgc gcgggcattg tgccggtgag ctatcgccgc
481 gtgccgtgcc gccgcgcgg cggcattcgc tttaccatta acggccatag ctattttaac
541 ctggtgctga ttaccaacgt gggcggcgcg ggcgatgtgc atgcggtgag cattaaaggc
601 gcgaccaccg attggcagcc gatgagccgc aactggggcc agaactggca gagcaacgcg
661 aaccgaacg gccagcgct gagctttaaa gtgaccacca gcgatggccg caccctggtg
721 agcaacaacg tggcgccgcc gaactggagc tttggccaga cctttgcggg cgcgcagttt
781 aac
```

Figure 7A CPEXPA1

```
MAFLGRIIFATFLAITSSSHFARAYYGDDGGWTDHATFYGGS
DASGTMGGACGYGNLYSQGYGTNTAALSTALFNNGLSGSCFEIKCASSISGGGKWCLPGGSI
TVTATNFCPPNNALPNNAGWCNPPLQHFDLSQPVFQHIAQYRAGIVPVSYRR
VPCRRRGGIRFTINGHSYFNLVLITNVGGAGDVHAVSIKGATTDWQPMSRNWQGNQS
NANPNGQRLSFKVTTSDGRTLVSNNVAPPNWSFGQTFAGAQFN
```

Figure 6b

```
1   gcgacctttt atggcggcgg cgatgcgagc ggcacccatgg gcggcgcgctg cggctatggc
61  aacctgtata gcaccggcta tggcaccaac accgcggcgc tgagcaccgc gctgtttaac
121 aacggcctga cctgcggcgc gtgctatgaa ctgacctgca acaacgatcc gcgcggctgg
181 tgcctgagcg gcaccattat ggtgaccgcg accaactttt gcccgccgaa cccgagcctg
241 ccgaacgata acggcggcctg gtgcaaccgc ccgcgccagc attttgatct ggcggaaccg
301 gcgtttctgc agattgcgca gtataaagcg ggcattgtgc cggatgaacta tcgccgcgtg
361 ccgtgccaga aaaaaggcgg cattcgcttt accattaacg gccatagctt ttttaacctg
421 gtgctggtga ccaacgtggg cggcgtgggc gatgtgcata gcgtgagcat taaaggcagc
481 aacggcggct ggcagccgct gagccgcaac tggggccaga actggcagag caacagctat
541 ctgaacggcc agagcctgag ctttcagggtg accaccagcg atggccgcac cgtgaccagc
601 tatgatgtgg cgccgcgcgg ctggcagttt ggccagacct ttgaaggcgg ccagttt
```

Figure 7b CPEXPA-2

```
ATFYGGDASGTMGGACGYGNLYSTGYGTNTAALSTALFNNGLT
CGACYELTCNNDPRGWCLSGTIMVTATNFCPPNPSPNDNGGWCNPPRQHFDLAEPAF
LQIAQYKAGIVPVNYRRVPCQKKGGIRFTINGHSFFNLVLVTNVGGVGDVHSVSIKGS
NGGWQPLSRNWQONWQSNQSYLNGQSLSFQVTTSDGRTVTSYDVAPRGWQFGQTFEGGQF
```

Figure 6c

```
1  tgccatgcga ccttttatgg cggcagcgat gcgagcggca ccatgggagg cgcggtgcggc
61  tatggcaacc tgtatagcca gggctatggc accaacaccg cggcgctgag caccaccctg
121 ttttaacaacg gcctggcggtg cggcagctgc tatcaggtgc gctgcgaagg cggcccgaaa
181 tgggtgcgtgc gcggcgggcga tcgcattatt accgtgaccg cgaccaactt ttgcccgcgc
241 aactatgcgc tggcgaacga taacggcggc tgggtgaacc cgccgcggcca gcattttgat
301 atggcgcgagc cggcggtttgt gcgcatttgc cattatcgcg cgggcattgt gccgattagc
361 tatcgccgcg tgagctgcgt gaaaaaaggc ggcattcgcc tgaccattaa cggccatagc
421 tattttaacc tgggtgctggt gagcaacgtg ggcggcagcg gcgatgtgca tgcggtgtgg
481 attaaaggca gcggcgggcgg cccgtggcag gcgatgacc gcaactgggg ccagaactgg
541 cagagcaaca gctatctgga tggccagagc ctgagcttta ttgtgcgcgc gggcgatggc
601 cgcaccgtga ccgcgaacga tattgtgccg cgcggctggc agtttgggca gacctttgaa
661 ggcccgcagt tt
```

Figure 7c CPEXPA-3

```
CHATFYGGSDASGTMGGACGYGNLYSQGYGTNTAALSTTLFNNG
LACGSCYQVRCEGGPKWCVRGGDRIITVTATNFCPPNYALANDNGGWCNPPRQHFDMA
QPAFVRIAHYRAGIVPISYRRVSCVKKGGIRLTINGHSYFNLVLVSNVGGSGDVHAVW
IKSGGGGPWQAMTRNWQNWQNSYLDGQSLSFIVRAGDGRTVTANDIVPRGWQFGQT
FEGPQF
```



Figure 8

